# MACHINE DESIGN

# 1990 EDITORIAL INDEX

## Volume 60—January to December

## AUTHOR INDEX


### A

Aguilar, Stanley C.—"Tabular Dimensioning with a CAD Program," Mar. 8, p. 114

### B

Babin, David—"Multiplexed LED Driver Handles Both Lamps and Displays," Mar. 22, p. 110
Baker, Robert, Kenji Yoshida, and Liang Hsi Chang—"Tin-Can Stepping Motors Pack More Punch," June 21, p. 73
Bates, James A.—"Nickel-Based Coatings Add Ductility," Oct. 25, p. 68
Beercheck, Richard C.—"Recreation Equipment: Engineering the competitive edge," June 7, p. 58
"Manufacturing Technology — Meeting the global challenge," Aug. 23, p. 64
Bennett, Robert—"Selecting Fastener Locking Elements," July 26, p. 107
Berardinis, Lawrence A.—"Electromechanical Temperature Switches Survive in a high-tech world," Feb. 8, p. 112
"Mechatronics: A New Design Strategy," Apr. 26, p. 50
"Powerful Chips Drive Automotive Electronics," Apr. 26, p. 61
"Tooling Up for the Information Age," Sept. 6, p. 92
"Government Tangles Telephone Technology," Oct. 11, p. 76
"Battlefield Technology Sets Peaceful Course," Nov. 8, p. 30
Bibel, G. D. and Joseph Kovach—"Pinpointing Stressed Out Designs: Interpreting FEA results," Dec. 6, p. 111
Bickford, John H.—"Bolt Torque: Getting it right," June 21, p. 67
Blackham, Kevin and Walter T. Nawrocki—"Sizing Spring Tensioners for V-Belt Drives," Jan. 11, p. 132
Blatchley, Charles and Piran Sioshansi—"Monitoring Wear with Gamma Rays," Oct. 25, p. 99
Bloom, Gerald—"Accurately Measuring Ultralow Flow," Sept. 6, p. 103
Bohachevsky, George—"Installing and Removing Bearings Without Damage," Aug. 9, p. 55
Bone, Steven K.—"Converting CAD to NC," May 10, p. 58
Booser, E. Richard and Donaid F. Wilcock—"Improving Tilt-Pad Bearing Design," July 12, p. 75
Bozzelli, John W.—"Selecting an Injection-Molding Machine," Mar. 22, p. 116
Browning, Robert J.—"Detroit '90 — Motor-City Slowdown?" Jan. 11, p. 72
"Indy 500 - Engineering A Sleeker Car," May 10, p. 74
"Electronics Keep Big Trucks Hauling," Oct. 25, p. 38
Brucer, John M.—"Margins of Safety For Combined Loads," Feb. 22, p. 102
Brucker, Ron and Chris Durlach—"Guidelines for Specifying Stainless," June 7, p. 50
Burnham, Chip—"Abrasive Waterjets Come of Age," May 10, p. 93

### C

Campbell, Peter—"Miniature Magnetic Encoder," Mar. 8, p. 105
Canner, Laurel—"Estimating Heater Power Requirements," Nov. 22, p. 91
Chang, Liang Hsi, Robert Baker, and Kenji Yoshida—"Tin-Can Stepping Motors Pack More Punch," June 21, p. 73
Carlisle, Ben H.—"Congressional Chemists Mandate Designer Gasoline," Sept. 20, p. 22
Cogun, Can—"Keeping Electric Discharge Machining Under Control," Apr. 26, p. 105
Courtright, Michael L.—"Used Oil: Don't Dump It, Recycle It," Oct. 25, p. 81
Craft, David J.—"Modulating High-Voltage Light with ICs," May 24, p. 110
Curley, Luke and John Newnham—"Safely Using Yield Control," Sept. 20, p. 52

### D

Decker, Chester A.—"Gear Dimensioning Over Pins," Apr. 26, p. 116
Diamond, Albert—"Sizing Harmonic Drives," Mar. 22, p. 48
Dibble, Michelle A.—"Improving Surface Finish on Castings," Feb. 8, p. 168
"Shaping the Future of Flight," May 24, p. 70
"Plastics Fuel the Electronics Revolution," Aug. 9, p. 66
"Plastics Move Into the Music Business," Dec. 6, p. 92
Dovel, George—"Settling Down Machine Shakes," Jan. 11, p. 125
Dulak, John J.—"Sealing Hazardous Gas," Mar. 8, p. 58
Dumas, Henry J. and James H. Dumas—"Predicting Temperatures in Thick Cylindrical Coils," Sept. 6, p. 116
Dumas, James H. and Henry J. Dumas—"Predicting Temperatures in Thick Cylindrical Coils," Sept. 6, p. 116
Durlach, Chris and Ron Brucker—"Guidelines for Specifying Stainless," June 7, p. 50
Dvorak, Paul—"Filling Out the FEA Family," Feb. 22, p. 75
"Electric Cylinders Push into Fluid-Power Territory," May 24, p. 50
"Development Software Helps Get a Grip on Concepts," Sept. 6, p. 52
Dvorak, Paul and William Siuru—"Keeping Old Birds Airborne," Nov 22, p. 28

### E

Evans, Bill and Gerard Furbershaw—"Designing Low-Cost Enclosures," May 10, p. 99

### F

Ferris-Prabhu, A. V.—"New Approach To Improving Product Quality," Nov. 8, p. 98
Ferriter, J. M. and C. E. T. White—"How To Use Fusible Alloys," Dec. 6, p. 124
Fijas, David A.—"Advancing Shock Absorber Technology," Mar. 8, p. 52
Filho, Mark—"Better Vibration Control With Honeycomb-Core Structures," Nov. 22, p. 79
Finney, Don—"Silicones Take on Tough Automotive Challenges," July 12, p. 70
Flower, Elane C.—"FEA Yields Improved Forgings," Sept. 20, p. 83
Foltz, Ramon D. and Thomas A. Penn—"The Perils of Patent Infringement," Apr. 12, p. 105
Fong, Henry H.—"How To Spot a Nonlinear Problem," Sept. 6, p. 58
Frank, Randy and Al Pahsenich—"Surviving Short Circuits," Mar. 8, p. 89
Fredette, Lee, Corrado Poli, and J. Edward Sunderland—"Trimming the Cost of Die Castings," Mar. 8, p. 99
Furbershaw, Gerard and Bill Evans—"Designing Low-Cost Enclosures," May 10, p. 99

### G

Gillett, J. E. and K. Ohkawa—"Updating Programs with PC Graphics," Feb. 8, p. 170
Gosbell, Victor J. and Yung C. Liang—"Modeling DC Motors with SPICE," July 12, p. 81
Graham, Edward—"Built-In Arc Suppressors Boost Cup-Motor Life," Feb. 22, p. 69
"The Ins and Outs of Toothless Motors," Nov. 8, p. 93
Gregg, Jack—"Block Diagrams Simplify Mechanism Models," Jan. 25, p. 78
Guay, Pierre T.—"Common Sense Rules for CAD Systems," Apr. 12, p. 112
Guditz, Ralph—"Justifying the Cost of Direct Converters," June 7, p. 91
Guntur, Rao R. and A. K. Sheikh—"Saving Weight with Shrink Fits," July 26, p. 99
Gyorki, John R.—"ISDN Board Prototypes Communication Systems," Apr. 26, p. 110
"New Calculators Pack Heavy Computing Punch," May 24, p. 83
Gyorki, John and Milt Leonard—"Autos Spur the 90s," Aug. 23, p. 79

### H

Hafner, Eugene R.—"Selecting Bearings for Fans and Blowers," Apr. 26, p. 97
Hagan, Tim and Frank Van Emburg—"PTFE Bearings Put the Heat on Metal," Nov. 8, p. 56
Hall, James and Paul Valaer—"The Problems with Geometric Dimensioning and Tolerancing," Aug. 23, p. 129
Hatt, Fritz and Thomas J. R. Hughes—"The Revolution Fueled by Fast Computers," Feb. 8, p. 151
Heberling, John M.—"Building Strong Bonds with Inertia Welding," Dec. 6, p. 119
Helmey, Donald—"Programming Machine States with Flow Charts," Oct. 11, p. 104
Herard, James D.—"Taking the Zap Out of Hot Plugging," Nov. 22, p. 46
Hibberson, David—"Modern Thermistors Meet Rugged Demands," July 26, p. 66
Hill, Theodore B. and Jeffrey Lind—"Designing Ventilation Grilles for Electronic Equipment," Aug. 9, p. 73
Hughes, Thomas J.R. and Fritz Hatt—"The Revolution Fueled by Fast Computers," Feb. 8, p. 151
Husslage, Robin—"A Better Way to Blend Design with Manufacturing," Aug. 9, p. 89
Hutchins, David W.—"Fighting Transients with Silicon," Feb. 8, p. 137
Huthwaite, Bart—"Checklist for DFM," Feb. 8, p. 163


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## J


Jacobson, Mark and David Warburton—"When Packaging is an Engineering Concern," Feb. 8, p. 174
Jain, Yogendra—"Tapping the Power of DSPs," June 7, p. 73
"DSP Design Made Easy," July 26, p. 88
Jenkins, Neal—"Thermal Analysis Speeds Surface-Mount Board Design," Jan. 25, p. 71
Jensen, Kirsten—"Extending Bearing Life," Mar. 22, p. 42
Jensen, Kirstin J. and William A. Nolan—"Measuring Low Flow Accurately," Feb. 8, p. 105


## K


Kaplan, Joseph and Vincent Spitaleri—"Designing Reversing-Clutch Drives," June 21, p. 91
Karabcievschy, Val—"Updated Quick-Disconnect Terminals," Dec. 6, p. 103
Kelley, Reginald—"Saving Power by Cutting Drivetrain Inertia," May 24, p. 56
Kelly, Robert E.—"Managing the New Workforce," May 10, p. 109
Kevern, Jim and Bob Southard—"Fiber-Optic Networks Challenge Coaxial Cable," Nov. 22, p. 56
Kimizuka, Norio—"Improving Output from Optical Linear Scales," Oct. 25, p. 106
Knipper, Gary—"Upgrading with Risc Microcontrollers," Aug. 23, p. 140
Koetsch, Philip—"Reliable Power for Critical Processes," Sept. 20, p. 77
Kolp, Robert J., Jr.—"Simplifying Safety Screen Analysis," Apr. 12, p. 95
Korane, Kenneth J.—"Sorting Out European Standards," Jan. 25, p. 63
"The Search for CFC Substitutes," May 24, p. 95
"The Changing State of CFD," July 26, p. 83
"Dispelling Motion-Control Myths," Oct. 11, p. 52
"Magic Engineering at Disney," Oct. 25, p. 26
Kot, Norbert—"Roller Cams Challenge Toggle Clamps," Jan. 25, p. 82
Kovach, Joseph and G. D. Bibel—"Pinpointing Stressed Out Designs: Interpreting FEA results," Dec. 6, p. 111
Krulikowski, Alex—"The Seven Deadly Sins of Dimensioning and Tolerancing," Nov. 8, p. 60


## L


Larson, Charles—"How To Avoid Hydrogen Cracking in Springs," Jan. 11, p. 60
Lawler, Bruce D.—"Understanding Generative Process Planning," May 10, p. 50
Leonard, Milt and John Gyorki—"Autos Spur the 90s," Aug. 23, p. 79
Levy, Harold J.—"PC Program for Shock Spectrum Analysis," Mar. 8, p. 110
Liang, Yung C. and Victor J. Gosbell—"Modeling DC Motors with SPICE," July 12, p. 81
Lind, Howard C.—"Spur Gears for High Loads and Precision," Aug. 23, p. 125
Lind, Jeffrey and Theodore B. Hill—"Designing Ventilation Grilles for Electronic Equipment," Aug. 9, p. 73
Lipp, Robert—"Stress in Eccentrically Loaded Bolt Groups," June 21, p. 86
Lloyd, Frank H.—"Predicting Failures in Redundant Systems," Mar. 22, p. 105


## M


Madhavan, P. V.—"Longer Life for Hydraulic Fluids," Dec. 6, p. 54
Magee, John H.—"Silicon Beefs Up Stainless Steel," Oct. 25, p. 60
Martin, Merrill—"How To Select a Variable-Speed Drive," Oct. 25, p. 91
McInter, Richard—"Choosing the Right Elastomer," Dec. 6, p. 132
Miller, Bill—"Simple Models Help Eliminate Measurement Errors," Nov. 8, p. 103
Miller, Gary, Carl Wiseman, Craig Shaw, and Chris Smallwood—"Modular Controllers for Future Engines," Aug. 23, p. 93
Moffatt, Robert—"Clearing the Air on Vacuum Pumps," July 12, p. 44
Mollman, Robert E.—"Liquid Composite Molding Moves into Structures," June 7, p. 46
Morton, Al—"Increasing Disk-Drive Capacity," Sept. 20, p. 92
Mraz, Stephen J.—"Trouble in Aerospace Paradise," Mar. 8, p. 66
"Do Unions Belong in Engineering?", June 7, p. 83
"Working with Industrial Designers," Aug. 9, p. 81
"Engineering Shortage: Prophecy or propaganda?", Sept. 6, p. 111
"Salaries Trail Inflation in 1990," Oct. 11, p. 24
"Looking Inside With Outside Help," Nov. 8, p. 75
"Lightweight, Fights Great," Dec. 6, p. 22
Muraski, Stephanie J.—"Make It in a Minute," Feb. 8, p. 127
"American Autos in the Clinch," Apr. 12, p. 48
"Can Politicians Solve the Bad-Bolt Problem?", Sept. 20, p. 46


## N


Nawrocki, Walter T. and Kevin Blackham—"Sizing Spring Tensioners for V-Belt Drives," Jan. 11, p. 132
Newnham, John and Luke Curley—"Safely Using Yield Control," Sept. 20, p. 52
Nobbe, Thomas A.—"Robots Go Where No Man Has Gone Before," Jan. 25, p. 52
"Kit Planes: High Tech in a Box," Mar. 22, p. 70
"Cruise-Ship Technology Makes Waves," Apr. 26, p. 79
"Giving Cars a Mind of Their Own," June 21, p. 56
Nolan, William A. and Kirstin J. Jensen—"Measuring Low Flow Accurately," Feb. 8, p. 105
Nygren, Magne and Theodore S. Rappaport—"Simple Load-Cell Amplifier Protects Heavy Equipment," Jan. 11, p. 138


## O


Ohkawa, K. and J. E. Gillett—"Updating Programs with PC Graphics," Feb. 8, p. 170
Olmos, Frank—"Monitoring Seal Health," Oct. 25, p. 110


## P


Pangborn, Donald—"Mechanical Counterbalances Challenge Gas Springs," Oct. 11, p. 100
Paul, Steven J.—"Keeping Systems Up with UPS," Feb. 22, p. 44
Penn, Thomas A. and Ramon D. Foltz—"The Perils of Patent Infringement," Apr. 12, p. 105
Pedicini, Chris S.—"The Dynamics of Indexed Motion," July 26, p. 104
Phetteplace, James—"Seeing Around Corners in Machines," June 7, p. 62
Poli, Corrado, J. Edward Sunderland, and Lee Fredette—"Trimming the Cost of Die Castings," Mar. 8, p. 99
Pourahmadi, Farzad and John W. Twerdok—"Modeling Micromachined Sensors with Finite Elements," July 26, p. 44
Priess, John and Dick Russell—"Evaluating Automated Meshing and Element Selection," June 21, p. 48
Prun, Jon—"Maneuvering in the NC Minefields," Jan. 11, p. 107
Pshaenich, Al and Randy Frank—"Surviving Short Circuits," Mar. 8, p. 89
Purchase, Michael—"Reducing Temperature Effects on Thin-Section Bearings," Oct. 11, p. 93


## R


Ranallo, D. Christian—"Teamwork Counts in Making the Switch to Plastics," Nov. 8, p. 83
Rappaport, Theodore S. and Magne Nygren—"Simple Load-Cell Amplifier Protects Heavy Equipment," Jan. 11, p. 138
Reardon, Joseph P.—"New Image for Polymer Composites," Jan. 11, p. 48
Rouse, Nancy E.—"Computer-Aided Design Gets Down to Business," Jan. 25, p. 40
"Managing Distributed Engineering Databases," June 21, p. 42
Russell, Dick and John Priess—"Evaluating Automated Meshing and Element Selection," June 21, p. 48


## S


Sague, John E.—"Team Effort Solves Bearing Problems," Aug. 9, p. 47
Shaland, Alex—"How To Select a Thermocouple," Feb. 22, p. 50
"Making Sense of Analog-to-Digital Converters," Apr. 12, p. 86
Shaw, Craig, Chris Smallwood, Gary Miller, and Carl Wiseman—"Modular Controllers for Future Engines," Aug. 23, p. 93
Sheikh, A. K. and Rao R. Guntur—"Saving Weight with Shrink Fits," July 26, p. 99
Shimo, Takahiro—"Linear Roller Guides — High precision under heavy loads," May 24, p. 103
Shipley, Thomas—"Beyond Hardened Steel," Aug. 23, p. 52
Siira, Juhani—"Friction Analysis of Lock-and-Hold Joints," Feb. 22, p. 99
Smallwood, Chris, Gary Miller, Carl Wiseman and Craig Shaw—"Modular Controllers for Future Engines," Aug. 23, p. 93
Sioshansi, Piran and Charles Blatchley—"Monitoring Wear with Gamma Rays," Oct. 25, p. 99
Siuru, William and Paul Dvorak—"Keeping Old Birds Airborne," Nov 22, p. 28
Slysh, Paul—"Picking the Best High-Strength Lightweight Structures," Oct. 11, p. 85
Solomon, Alan J.—"Using FEA for Industrial Equipment Design," Apr. 12, p. 77
Song, James and Larry Suek—"Polystyrene Challenges Engineering Resins," Feb. 22, p. 83
Southard, Bob and Jim Kevern—"Fiber-Optic Networks Challenge Coaxial Cable," Nov. 22, p. 56
Spitaleri, Vincent and Joseph Kaplan—"Designing Reversing-Clutch Drives," June 21, p. 91
Stinson, Terry—"Teamwork in Real Engineering," Mar. 22, p. 99
Stoufer, Paul—"Serial Multiplexers - The next generation programmable controllers," Sept. 20, p. 69
Strouse, Gary L.—"Better Way to Measure Sealing Capacity," July 12, p. 50
Suek, Larry and James Song—"Polystyrene Challenges Engineering Resins," Feb. 22, p. 83
Sunderland, J. Edward, Lee Fredette, and Corrado Poli—"Trimming the Cost of Die Castings," Mar. 8, p. 99
Sutej, Joseph M.—"Evaluating Low-CFC Foam Insulation," May 24, p. 108
Svenneby, Peter—"Developing User-Friendly Interfaces," Jan. 25, p. 46
Sylvan, John—"ICs Simplify LVDT Interface," Jan. 25, p. 84


## T


Taff, E. Wayne—"Don't Let Product Liability Knock You Out," Feb. 22, p. 91
Thomas, Benoit—"Bimetal Solves Wear Problems," Sept. 20, p. 90
Tripp, Roger M.—"Avoiding Contact Problems at Low Currents," May 10, p. 119
Troxler, John A.—"Expendable Pattern Casting Comes of Age," Aug. 23, p. 134
Tucker, Jonathan L.—"Interfacing Sensors to PCs," Mar. 22, p. 88
Twerdok, John W. and Farzad Pourahmadi—"Modeling Micromachined Sensors with Finite Elements," July 26, p. 44


## V


Valaer, Paul and James Hall—"The Problems with Geometric Dimensioning and Tolerancing," Aug. 23, p. 129
Van Emburg, Frank and Tim Hagan—"PTFE Bearings Put the Heat on Metal," Nov. 8, p. 56
Vig, Ravi—"Power Hall-Effect Sensors Take to the Road," Aug. 23, p. 113
Vivoli, Daniel—"Parallel Processors for High-Speed Computing," July 12, p. 61


## W


Warburton, David and Mark Jacobson—"When Packaging is an Engineering Concern," Feb. 8, p. 174
Warren, Cliff—"Infrared Thermometers - Out of the lab and into the factory," Nov. 22, p. 85
White, C. E. T. and J. M. Ferriter—"How To Use Fusible Alloys," Dec. 6, p. 124
Wilcock, Donald F. and E. Richard Booser—"Improving Tilt-Pad Bearing Design," July 12, p. 75
Wise, James—"Long Life for Power Contacts," Jan. 11, p. 117
Wiseman, Carl, Craig Shaw, Chris Smallwood, and Gary Miller—"Modular Controllers for Future Engines," Aug. 23, p. 93
Woodworth, Raymond D.—"Cutting the Cost of High-Performance Valves," June 21, p. 81
Worm, Allan T.—"New Horizons for Fluoroelastomers," Aug. 23, p. 46
Wright, Seth—"Analyzing Motion Systems with PCs," Apr. 26, p. 71
Wunsch, Fritz—"Grease-Starvation Lubrication for High-Speed Spindle Bearings," May 10, p. 120


## Y


York, Michael—"Using Compressed Air More Efficiently," Sept. 6, p. 120
Yoshida, Kenji, Liang Hsi Chang, and Robert Baker—"Tin-Can Stepping Motors Pack More Punch," June 21, p. 73

# SUBJECT INDEX

**SUBJECT CLASSIFICATION KEY**

- **A** —Article
- **CCP**—CAD/CAM Planning: 1990
- **CD** —Component Design Ref. Volume
- **N/T** —News Trends
- **S** —Scanning
- **SD** —System Design Ref. Volume

## 1 ELECTRICAL & ELECTRONIC

### 10. General


Tooling Up for the Information Age, A, 9/6, p. 92
Battlefield Technology Sets Peaceful Course, A, 11/8, p. 30


### 11. Motors & Electromechanical Actuators


Motors, SD, June, p. 282
The Ins and Outs of Toothless Motors, A, 11/8, p. 93
Mechanical microstepping improves accuracy, S, 2/22, p. 65
Tin-Can Stepping Motors Pack More Punch, A, 6/21, p. 73
Dual solenoids drive piston pump, S, 12/6, p. 48


### 12. Motor Controls & Protectors


Electric Drives, SD, June, p. 373
How To Select a Variable-Speed Drive, A, 10/25, p. 91
Dc drives improve engine testing, N/T, 11/22, p. 62
Laser beam replaces tracer rounds, N/T, 4/26, p. 28
Pneumatic servo stops anywhere, anytime, N/T, 7/12, p. 35
Game glove grabs graphics, S, 9/6, p. 82


### 13. Switches & Relays


Switch controls dual-battery system, S, 4/26, p. 92
Electromechanical Temperature Switches Survive in a high-tech world, A, 2/8, p. 112
Switch prevents accidental compressed-air restart, S, 7/12, p. 42


### 14. Circuit Components


First steps taken in race to build optical computers, N/T, 3/22, p. 12
Customer specs drive IC design, S, 1/25, p. 60
Crystal permits accurate density measurement, S, 12/6, p. 66
ICs Simplify LVDT Interface, A, 1/25, p. 84
Hardy IC memory card replaces slower floppy disk, S, 2/8, p. 100
Fighting Transients with Silicon, A, 2/8, p. 137
World speed records set with transistor, circuit, N/T, 2/22, p. 36
Real-time monitoring may improve semiconductors, N/T, 2/22, p. 38
Flexible PCB, ground plane yield gigahertz interconnect, S, 2/22, p. 65
Surviving Short Circuits, A, 3/8, p. 89
Modulating High-Voltage Light with ICs, A, 5/24, p. 110
Semiconductor switch handles power with ease, N/T, 10/11, p. 18
Chip cancels car noise, S, 5/10, p. 88
Machine boosts chip design to new level, 7/26, p. 12
Radiation hardening checks MOS flicker noise, N/T, 7/26, p. 12
Test chip checks semiconductor packaging, N/T, 7/26, p. 39
Upgraded power-train computer shifts transmission, S, 4/12, p. 68
Tapping the Power of DSPs, A, 6/7, p. 73
Parallel Processors for High-Speed Computing, A, 7/12, p. 61
DSP Design Made Easy, A, 7/26, p. 88
Modular Controllers for Future Engines, A, 8/23, p. 93
Upgrading with Risc Microcontrollers, A, 8/23, p. 140
Powerful chip boosts controller performance, N/T, 11/22, p. 12
Neuron chip raises product IQ, N/T, 12/6, p. 12
IBM boosts memory and logic density, N/T, 4/12, p. 14
ROM chip changes radio tuning, S, 9/20, p. 64
Thermal Analysis Speeds Surface-Mount Board Design, A, 1/25, p. 71
New bus to take computer systems into the 21st century, N/T, 4/12, p. 15
Making Sense of Analog-to-Digital Converters, A, 4/12, p. 86
New chips tune in to light, N/T, 4/26, p. 43
Tail-killer circuit tames high voltage, N/T, 4/26, p. 44
Market for mixed-signal ASICs expected to boom, N/T, 4/26, p. 44
Electronics mimic stingray mating calls, S, 8/9, p. 62
Superconducting circuit improves IR camera sensitivity, N/T, 9/6, p. 16
Mechatronics: A New Design Strategy, A, 4/26, p. 50
Powerful Chips Drive Automotive Electronics, A, 4/26, p. 61
Transistors lessen propagation delay, S, 4/26, p. 90
IC varies fan speed and power draw, S, 4/26, p. 92
Input/Output Devices, SD, June, p. 386
Built-In Arc Suppressors Boost Cup-Motor Life, A, 2/22, p. 69
Detector ensures high-resolution analysis, S, 4/26, p. 90
Solid-state laser drills through metal, S, 6/21, p. 65
Laser system measures surface quality, S, 7/12, p. 58
Laser prototyping poised for growth, N/T, 8/23, p. 35
Laser helps pinpoint hot-gas ingestion, N/T, 10/11, p. 16
Emulsion and coatings sharpens LCD panel, S, 2/8, p. 98
Multiplexed LED Driver Handles Both Lamps and Displays, A, 3/22, p. 110
Arc-discharge shrinks headlight size, S, 6/7, p. 71
Indicators and Displays, SD, June, p. 494
LCD welding lens darkens automatically, S, 7/26, p. 76


### 15,16. Miscellaneous Components, Interconnections


New magnets blaze fusion trail, N/T, 10/25, p. 70
Insulators hold heavy loads, S, 4/12, p. 70
Predicting Temperatures in Thick Cylindrical Coils, A, 9/6, p. 116
Water warms mirror for fog-free shaving, S, 10/25, p. 56
Scoop stays warm in ice cream, S, 11/8, p. 50
Estimating Heater Power Requirements, A, 11/22, p. 91
Diamonds are world's best heat sinks, N/T, 8/23, p. 12
Copper-covered sponges transfer IC heat, S, 10/1[illegible], p. 50
Optical fibers fine-tune explosion sensor, N/T, 8/23, p. 21
Fiber-Optic Networks Challenge Coaxial Cable, A, 11/22, p. 56
Long Life for Power Contacts, A, 1/11, p. 117
Avoiding Contact Problems at Low Currents, A, 5/10, p. 119
Interconnections, SD, June, p. 510
Taking the Zap Out of Hot Plugging, A, 11/22, p. 46
Updated Quick-Disconnect Terminals, A, 12/6, p. 103
Silver adhesive and ink lower the cost of flexible PCBs, N/T, 1/11, p. 12


### 17. OEM Control Systems & Computers


More PLC power in a smaller package, N/T, 5/10, p. 18
Serial Multiplexers - The Next Generation
Programmable Controllers, A, 9/20, p. 69
Computers let car see the road, S, 8/23, p. 72
Low-cost color hardcopy now possible, S, 5/24, p. 62
Pressure-sensitive pen paints electronically, S, 8/9, p. 62
Peripheral hardware, CD, October, p. 46
Computer-controlled manufacturing, CD, October, p. 377


### 18. Power Supplies, Conditioners & Controls


Polymer electrode boosts battery power, N/T, 1/11, p. 14
Aluminum-air cell forms renewable power supply, N/T, 5/10, p. 14
Keeping Systems Up with UPS, A, 2/22, p. 44
Predicting Failures in Redundant Systems, A, 3/22, p. 105
IC forms compact isolated power supply, S, 5/10, p. 86
Power Supplies, SD, June, p. 474
Reliable Power for Critical Processes, A, 9/20, p. 77


### 19. Sensors & Transducers


Inexpensive sensor detects liquid pollutants, N/T, 1/25, p. 18
Thin-film detector senses low concentrations of gas, N/T, 2/22, p. 35
Vibrating electrode measures static, S, 3/22, p. 82
Detector maps radiation for sensor designers, N/T, 5/24, p. 18
Power Hall-Effect Sensors Take to the Road, A, 8/23, p. 113
Simple Load-Cell Amplifier Protects Heavy Equipment, A, 1/11, p. 138
How To Select a Thermocouple, A, 2/22, p. 50
Modern Thermistors Meet Rugged Demands, A, 7/26, p. 66
Infrared Thermometers - Out of the lab and into the factory, A, 11/22, p. 85
On-chip integration conditions pressure sensor output, N/T, 11/22, p. 64
Gage compensates for temperature, S, 7/26, p. 78
Miniature Magnetic Encoder, A, 3/8, p. 105
Optical encoder ensures safe press operation, N/T, 9/20, p. 41
Improving Output From Optical Linear Scales, A, 10/25, p. 106
Rotary encoder ensures angle measurement accuracy, N/T, 11/22, p. 15

# 2 FLUID POWER

## 21,22,23. Fluids, Fluid Conditioners, Fluid Conductors

Fluids, Conductors, and Conditioners, SD, June, p. 684
Longer Life for Hydraulic Fluids, A, 12/6, p. 54
Operating Fluid-Power Equipment on Plain Water, A, 8/9, p. 92
Pneumatic membrane empties short silo, S, 3/8, p. 84
Riblets Reduce Flow Drag and Noise, A, 4/12, p. 112
Fluids, Conductors, and Conditioners, SD, June, p. 684
Dual bladder in tank prevents fuel spray, S, 3/8, p. 86
Teamwork speeds fuel-tank delivery, N/T, 11/8, p. 15
Simplifying Safety Screen Analysis, A, 4/12, p. 95
Fluids, Conductors, and Conditioners, SD, June, p. 684
Sliding sleeve seals soft tubing, S, 9/20, p. 64
Grease-Starvation Lubrication for High-Speed Spindle Bearings, A, 5/10, p. 120

## 24. Linear Devices

Telescoping cylinders let jack lift eccentric loads, S, 3/22, p. 80
Electric Cylinders Push into Fluid-Power Territory, A, 5/24, p. 50
Power Actuators, Motors, and Shock Absorbers, SD, June, p. 638
Dispelling Motion-Control Myths, A, 10/11, p. 52
Using Compressed Air More Accurately, A, 9/6, p. 120

Sealless pump is first with semiopen impeller, N/T, 4/26, p. 16
Rotational vane smooths out fluid flow, N/T, 8/23, p. 20

## 25. Rotary Devices

Power Input and Storage, SD, June, p. 554
Sensor design permits noncontact sampling, S, 7/12, p. 56
Power Actuators, Motors, and Shock Absorbers, SD, June, p. 638
Bearings and gears expand mini air motors uses, S, 1/25, p. 59
Clearing the Air on Vacuum Pumps, A, 7/12, p. 44
Hydraulic manifold steadies actuator, S, 3/8, p. 50
Actuator produces linear and rotary motion, S, 11/22, p. 42

## 26. Seals

Seals, Packings, and Gaskets, SD, June, p. 252
Aerospace seals solve down-to-earth problems, N/T, 10/11, p. 68
Mineral composite, rare-earth magnets improve bearing seal, S, 2/8, p. 100
Sealing Hazardous Gas, A, 3/8, p. 58
Moldable seals keep fire in check, N/T, 4/12, p. 39
Conductive sealants stop EMI, fire, and corrosion, N/T, 4/12, p. 40
Seal simplifies pipe-to-tank connection, S, 5/24, p. 64
Better Way to Measure Sealing Capacity, A, 7/12, p. 50
LEDs in gasket indicate solenoid power status, S, 4/26, p. 46

Small-Engine Gasket Demands, A, 12/6, p. 60
Monitoring Seal Health, A, 10/25, p. 110

## 27. Valves

Power Modulation and Control, SD, June, p. 588
Hydraulic fix for DC-10s may not be enough, N/T, 9/20, p. 15
Cutting the Cost of High-Performance Valves, A, 6/21, p. 81
Smart valve thinks with DSP brain, S, 7/12, p. 58
Magnetostrictive Alloys for Hydraulic Valve Control, A, 10/11, p. 60
Magnetic latch improves computer-controlled pumps, N/T, 10/11, p. 66
Mix-and-match valves boost pneumatic versatility, N/T, 10/11, p. 62

## 28. Instruments & Controls

Hydraulic wrench delivers constant torque, S, 4/12, p. 72
Cruise control uses no electronics, S, 8/9, p. 64
Measuring Low Flow Accurately, A, 2/8, p. 105
Metering facility to improve gas-flow measurement, N/T, 3/8, p. 48
Accurately Measuring Ultralow Flow, A, 9/6, p. 103

## 29. Systems & Assemblies

Abrasive Waterjets Come of Age, A, 5/10, p. 93
Building muscle with electrohydraulics, S, 10/11, p. 58

# 3 MECHANICAL

## 31. Power Sources

Fuel-efficient gas turbines offer autos alternatives, N/T, 1/25, p. 12
Design lowers turbofan part count, S, 3/8, p. 82
NASA tests stationary vanes for swirl recovery, N/T, 4/12, p. 19
GM testing two-stroke auto engine, N/T, 2/22, p. 14
Orbiting combustion chamber maximizes torque, S, 3/22, p. 40
Smokeless diesel truck engine clears the air, N/T, 4/12, p. 12
Two-stroke engine to power big-league autos, N/T, 4/26, p. 12
Cruise-Ship Technology Makes Waves, A, 4/26, p. 79
Audi takes aluminum engines into the next century, S, 4/26, p. 88
Luxury engine competes with best of Europe, N/T, 10/11, p. 12
Space shuttle main-engine program reaches milestone, N/T, 1/25, p. 19
Congressional Chemists Mandate Designer Gasoline, A, 9/20, p. 23

## 32,33,34. Drives, Transmissions, Drive Components

Mechanical Fixed-Spring Drives, SD, June, p. 58
One-piece housing keeps gears in check, N/T, 3/22, p. 38
Sizing Harmonic Drives, A, 3/22, p. 48
Saving Power By Cutting Drivetrain Inertia, A, 5/24, p. 56
Epicyclic gear drive is largest in hydro power use, N/T, 8/9, p. 40
Spur Gears for High Loads and Precision, A, 8/23, p. 125
Balls reduce speed and transmit torque, S, 11/8, p. 62

New truck transmission shifts smoothly, S, 2/22, p. 60
Mechanical Adjustable-Speed Drives, SD, June, p. 74
Driveline Components, SD, June, p. 106
Four-tooth sprocket drives roller chain, S, 11/8, p. 50
Sizing Spring Tensioners for V-Belt Drives, A, 1/11, p. 132
Flexible cable for 3D-drive systems, S, 5/24, p. 66

## 35. Rotational Components

Bearings and Lubricants, SD, June, p. 190
Extending Bearing Life, A, 3/22, p. 42
Round pivot aligns pillow block, S, 3/22, p. 80
Convex rollers sustain high loads, S, 6/7, p. 71
Hollow rollers improve bearing performance, S, 8/9, p. 44
Team Effort Solves Bearing Problems, A, 8/9, p. 47
Installing and Removing Bearings Without Damage, A, 8/9, p. 55
Reducing Temperature Effects On Thin-Section Bearings, A, 10/11, p. 93
PTFE Bearings Put the Heat on Metal, A, 11/8, p. 56
New look at bearing failures, N/T, 11/8, p. 64
Movable support tailors oil film to bearing load, S, 2/8, p. 98
Self-lubricating bearing works without a pump, N/T, 3/22, p. 36
Selecting Bearings for Fans and Blowers, A, 4/26, p. 97
Better support improves air-bearing accuracy, N/T, 5/24, p. 43
Improving Tilt-Pad Bearing Design, A, 7/12, p. 75
New configuration keeps flexible coupling balanced, S, 3/22, p. 82
Lighter clutch takes the drag out of racing, N/T, 5/24, p. 40

Designing Reversing-Clutch Drives, A, 6/21, p. 91

## 36,37. Mechanisms, Controls

Drive mechanism provides three-way motion, S, 12/6, p. 46
Mechanical Counterbalances Challenge Gas Springs, A, 10/11, p. 100
Counterbalance cuts saw vibration, S, 10/25, p. 56

## 38. Subsystems

Additional probe eliminates gantry in CMM, S, 3/22, p. 78
Guide sustains high-moment loads, S, 4/12, p. 70
Linear Roller Guides — High precision under heavy loads, A, 5/24, p. 103
Pre-engineered slide reduces installation hassle, N/T, 12/6, p. 69
The Dynamics of Indexed Motion, A, 7/26, p. 104
Robot cell automates jet-engine assembly, N/T, 7/26, p. 16
Fifth link improves rear suspension, S, 2/8, p. 96
Convertibles for the masses take to the roads, N/T, 4/26, p. 14
Glass-top cars offer best of both worlds, N/T, 4/26, p. 14
Designing Ventilation Grilles for Electronic Equipment, A, 8/9, p. 73
System cleans compressed air, S, 12/6, p. 48
Bearings and Lubricants, SD, June, p. 190
Used Oil: Don't Dump It, Recycle It, A, 10/25, p. 81
Robots Go Where No Man Has Gone Before, A, 1/25, p. 52
Robot hand grabs it all, N/T, 5/24, p. 44
Robot doctor carves better than surgeons, N/T,

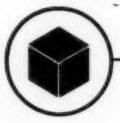
# 4 ASSEMBLY COMPONENTS

## 41,42,43. Fasteners, Springs & Isolation Devices, Miscellaneous


Tooth action simplifies blind fasteners — Bending tines eliminate spring, S, 4/12, p. 46
Tooth action simplifies blind fasteners — Meshing wedges increase holding power, S, 4/12, p. 46
Selecting Fastener Locking Elements, 7/26, p. 107
Joint design, CD, October, p. 291
Threaded fasteners, CD, October, p. 298
Nonthreaded fasteners, CD, October, p. 323
Special-purpose fasteners, CD, October, p. 337
ICs Simplify LVDT Interface, A, 1/25, p. 84
Fastener anchors floor, S, 9/20, p. 44
Bolt makers cannot duck testing, N/T, 6/21, p. 15
Bolt Torque: Getting it right, A, 6/21, p. 67
Can Politicians Solve the Bad-Bolt Problem? A, 9/20, p. 46
Safely Using Yield Control, A, 9/20, p. 52
Roller Cams Challenge Toggle Clamps, A, 1/25, p. 82
Custom jaws improve CNC fixture setup, S, 5/24, p. 48
Docking tool improves robot accuracy, S, 6/21, p. 62
Rod clamp is real shaft stopper, N/T, 8/9, p. 36
How To Avoid Hydrogen Cracking in Springs, A, 1/11, p. 60
Shape-memory springs smooth cold shifting, S, 3/8, p. 84
Air suspension reduces tanker rollover, S, 1/11, p. 96
Advanced Shock Absorber Technology, A, 3/8, p. 52
Urethane replaces rubber to soften ride, S, 6/7, p. 68
Power Actuators, Motors, and Shock Absorbers, SD, June, p. 638
Designing Low-Cost Enclosures, A, 5/10, p. 99


## 44. Measurement Equipment


Squirter scans complex composite shapes, N/T, 4/26, p. 12
Microscope helps move atoms one by one, N/T, 5/24, p. 12
Seeing Around Corners in Machines, A, 6/7, p. 92

# 5 MATERIALS

## 51,52. Ferrous Metals, Nonferrous Metals


Ferrous metals, CD, October, p. 207
Beyond Hardened Steel, A, 8/23, p. 52
Silicon Beefs Up Stainless Steel, A, 10/25, p. 60
Superplastic steel one step closer to reality, N/T, 6/21, p. 18
Submerged structures stop shoreline erosion, S, 10/11, p. 48
Superconducting leads help conserve energy, N/T, 2/22, p. 20
Nonferrous metals, CD, October, p. 181
Beryllium lifts space structure design, N/T, 1/11, p. 39


## 53,54. Plastics, Rubber & Elastomer


Concept house models plastics of today and tomorrow, N/T, 2/22, p. 12
Polystyrene Challenges Engineering Resins, A, 2/22, p. 83
Aerodynamic grass flow boosts mower capacity, S, 5/10, p. 88
Rigid plastic for motor end frame, S, 6/7, p. 44
Recreation Equipment: Engineering the competitive edge, A, 6/7, p. 58
Plastics Fuel the Electronics Revolution, A, 8/9, p. 66
Nylons retain color and save weight, N/T, 8/23, p. 38
Toughened thermosets strengthen undersea connectors, S, 8/23, p. 42
Slippery plastics protect ships in Panama Canal, S, 8/23, p. 74
Heavy resin adds bulk to engineering designs, N/T, 9/6, p. 12
Lightweight brace protects athletes' knees, N/T, 9/6, p. 12
High-technology mitts take on high temperatures, N/T, 9/6, p. 18
Resins strengthen golf-bag carrier, S, 9/6, p. 80
Plastics, CD, October, p. 65
Plastics benefit paint sprayer, S, 10/25, p. 66
Teamwork Counts in Making the Switch to Plastics, A, 11/8, p. 83
Plastic snow thrower is lightweight, has fewer parts, S, 12/6, p. 44
Plastics Move Into the Music Business, A, 12/6, p. 92
Sheet-molded compound simplifies saw table, S, 1/11, p. 98
Shaping the Future of Flight, A, 5/24, p. 70
The Search for CFC Substitutes, A, 5/24, p. 95
Composite fork takes weight out of gearbox, N/T, 6/7, p. 16
Liquid Composite Molding Moves into Structures, A, 6/7, p. 46
Composite materials help maintain U.S. air superiority, N/T, 7/12, p. 12
Composite replaces metal in neck brace, N/T, 1/11, p. 12
Composite hip promises better fit, S, 1/11, p. 46
New Image for Polymer Composites, A, 1/11, p. 48
Rock and epoxy form stronger machine bed, S, 1/11, p. 100
Steel spine stiffens Lotus structure, S, 7/26, p. 74
Shaped fibers may boost composite strength, N/T, 8/23, p. 40
Plastic panels provide strength with shine, S, 10/11, p. 47
Picking the Best High-Strength Lightweight Structures, A, 10/11, p. 85
Composites, CD, October, p. 151
Swiss-cheese structure toughens plastic parts, N/T, 10/25, p. 74
Stabilized film for switches shrinks less, N/T, 1/11, p. 42
Silicones Take on Tough Automotive Challenges, A, 7/12, p. 70
New Horizons for Fluoroelastomers, A, 8/23, p. 46
TPE connector improves jaundice-treatment machine, S, 10/11, p. 50
Elastomers and rubbers, CD, October, p. 166
Choosing the Right Elastomer, A, 12/6, p. 132


## 55,56. Joining Materials, Other Nonmetals


Joining, CD, October, p. 271
More bumpers may be bonded with cold-hold adhesive, N/T, 4/12, p. 42
New adhesive aimed at headlight applications, N/T, 4/12, p. 44
How To Use Fusible Alloys, A, 12/6, p. 124
Quasicrystals may lead to new electronic materials, N/T, 4/12, p. 14
Additional engineering materials, CD, October, p. 239
Carbon-carbon nozzle liner is biggest ever, N/T, 11/22, p. 22
Zinc alloys allow part consolidation, S, 10/11, p. 48
Ceramic brightens smiles, N/T, 10/25, p. 75
Nonwoven design strengthens composite armor, S, 1/11, p. 98
Graphite fibers strengthen flexible coupling, S, 1/11, p. 100
Process produces vapor-grown carbon fibers, S, 5/10, p. 86
Asbestos tiles removed without full containment, S, 9/6, p. 80
Foam absorbs impact and recoils slowly, S, 5/24, p. 66
Evaluating Low-CFC Foam Insulation, A, 5/24, p. 108
CFCs are on their way out, N/T, 12/6, p. 16


## 57. Finishes, Coatings & Lubricants


Coatings, platings, and finishes, CD, October, p. 257
Gun raises coating resistance to new limits, N/T, 6/7, p. 38
Nickel-based coatings and ductility, A, 10/25, p. 68


## 58. Prefabricated Forms


Bimetal Solves Wear Problems, A, 9/20, p. 90
Better Vibration Control with Honeycomb-Core Structures, A, 11/22, p. 79


## 59. Electrical & Electronic


Thin gaskets protect electronics from EMI/RFI, S, 9/6, p. 82

# 6 MANUFACTURING PROCESSES


## 60. General

Silicon crystal takes lead in purity, N/T, 6/7, p. 21
Manufacturing Technology - Meeting the global challenge, A, 8/23, p. 64

## 61,62,63. Metal Casting, Shaping & Forming, Manufacturing Assembly Services

Improving Surface Finish on Castings, A, 2/8, p. 168
Expandable Pattern Casting Comes of Age, A, 8/23, p. 134
Vertical shot "forges" die castings, S, 2/8, p. 94
Trimming the Cost of Die Castings, A, 3/8, p. 99
American Autos in the Clinch, A, 4/12, p. 48
New technology makes tougher P/M parts at less cost, N/T, 1/11, p. 45

## 64,65. Metal Joining, Removal

Designing Welded Joints, A, 4/12, p. 56
Cutting tool links CAD to water-jet robot, N/T, 1/11, p. 16
Steelmaker supplies near-net shape stock, N/T, 6/7, p. 37
Keeping Electric Discharge Machining Under Control, A, 4/26, p. 105
Wire feeder optimizes laser welding, N/T, 2/8, p. 16

## 67,68. Finishing, Plastic & Rubber Processes

Catalytic resin eliminates photoimaging, S, 2/22, p. 62

## 69. Production Machinery & Plant Equipment

Design and assembly, CD, October, p. 364
Building Strong Bonds with Inertia Welding, A, 12/6, p. 119
Sintering powders expand desktop manufacturing, S, 1/25, p. 60
Make It in a Minute, A, 2/8, p. 127
Selecting an Injection-Molding Machine, A, 3/22, p. 116
Roller paints without a pan, S, 10/25, p. 58
Leaf raking made less back breaking, S, 10/25, p. 59
Videolaser speeds image capture for CAD analysis, N/T, 1/25, p. 12
Square bits replace grader cutting edge, S, 3/8, p. 86
Simplified sorter does speedy sifting into many bins, S, 4/12, p. 72
Variable-geometry combustor cuts $NO_x$ emissions, N/T, 8/9, p. 35

# 7 DESIGN THEORY & TECHNIQUES


## 71,72,73. Design Analysis, Applied Mathematics, Basic Science

Block Diagrams Simplify Mechanism Models, A, 1/25, p. 78
Margins of Safety for Combined Loads, A, 2/22, p. 102
Gear Dimensioning Over Pins, A, 4/26, p. 116
Bolt stress measured by calculating wave speed, S, 5/24, p. 64
Basics of Motion Control, SD, June, p. 5
Stress in Eccentrically Loaded Bolt Groups, A, 6/21, p. 86
Saving Weight with Shrink Fits, A, 7/26, p. 99
How To Spot A Nonlinear Problem, A, 9/6, p. 58

# 8 ENGINEERING MANAGEMENT & OPERATIONS


## 81. Engineering Department Operations

Managing People and the Technology, CCP, 7/26, p. CC4
Simultaneous Engineering as a Competitive Advantage, A, 10/25, C1
Simultaneous Engineering Around the World, A, 10/25, p. C2
Putting Simultaneous Engineering in Place, A, 10/25, p. C7
Simultaneous Engineering Step By Step, A, 10/25, p. C12
Tire industry keeps pace with high technology, N/T, 6/21, p. 12
Building Better Systems, CCP, 7/26, p. CC14
Salaries Trail Inflation in 1990, A, 10/11, p. 24

## 82,83. Product Planning & Marketing, Drafting & Reproduction

Checklist for DFM, A, 2/8, p. 163
When Packaging is an Engineering Concern, A, 2/8, p. 174
Teamwork in Real Engineering, A, 3/22, p. 99
Linking design and manufacturing, CD, October, Inside front cover
Design and assembly, CD, October, p. 364
Fluid-power survey highlights future industry trends, N/T, 12/6, p. 70
Understanding Generative Process Planning, A, 5/10, p. 50
Copier initiates service, S, 8/9, p. 64
Multipurpose copier is a publishing house in a box, N/T, 11/22, p. 20

## 84. Engineering Department Equipment

Computer-Aided Design Gets Down to Business, A, 1/25, p. 40

New Calculators Pack Heavy Computing Punch, A, 5/24, p. 83
PC power speeds conversion, N/T, 3/8, p. 16
IBM finds right workstation combination, N/T, 3/22, p. 14
Analyzing Motion Systems with PCs, A, 4/26, p. 71
Machines merge two architectures, N/T, 6/21, p. 33
Modular laptop features removable hard drive, S, 1/25, p. 38
This computer gets under foot, S, 9/20, p. 62
The Revolution Fueled by Fast Computers, A, 2/8, p. 151
Concept development more critical than CAD, N/T, 3/22, p. 33
Custom computer controls super-bright light source, N/T, 6/7, p. 12
Braille mouse lets blind use computers, N/T, 1/11, p. 15
Electronics slim digitizer pad, S, 1/25, p. 59
Input device converts force to motion, S, 5/10, p. 48
Record your own CAD videotape, N/T, 1/25, p. 31
ISDN Board Prototypes Communication Systems, A, 4/26, p. 110
Graphics card displays high and low-res images, S, 6/21, p. 38
Multicarrier model operates on cellular network, S, 7/26, p. 42
Novel recording head helps set data-storage record, N/T, 1/25, p. 14
Increasing Disk-Drive Capacity, A, 9/20, p. 92
Maneuvering in the NC Minefields, A, 1/11, p. 107
Look-In software leads news on CAD data exchange, N/T, 1/25, p. 32
Geometric system speeds MCAE, N/T, 1/25, p. 34
Shrink-wrapped software for Risc supercomputing, N/T, 1/25, p. 34
Software increases robot IQ, N/T, 3/8, p. 14
Software billed as key to automated management, N/T, 3/8, p. 18
Software describes compressor leaks, N/T, 3/8, p. 47
Tabular Dimensioning with a CAD Program, A, 3/8, p. 114
Software cuts automobile engine-analysis time, N/T, 3/22, p. 18
Common Sense Rules for CAD Systems, A, 4/12, p. 112
Expert system will tool future aircraft, N/T, 5/10, p. 12
Waveform software couples breadboard and simulator, N/T, 5/10, p. 16
Converting CAD to NC, A, 5/10, p. 58
Robotic software kills bugs and downtime, N/T, 6/21, p. 37
Managing Distributed Engineering Databases, A, 6/21, p. 42
The Changing State of CFD, A, 7/26, p. 83
Database speeds access to fastener specs, N/T, 9/20, p. 43
Programming Machine States with Flow Charts, A, 10/11, p. 104
Simple Models Help Eliminate Measurement Errors, A, 11/8, p. 103
Updating Programs with PC Graphics, A, 2/8, p. 170
PC Program for Shock Spectrum Analysis, A, 3/8, p. 110
Fluid flow model aids jet-engine design, N/T, 1/11, p. 14
Developing User-Friendly Interfaces, A, 1/25, p. 46
New software builds better solid models, N/T, 3/8, p. 12
Computing power allows 3D surface modeling on PCs, N/T, 5/10, p. 44
Justifying the Cost of Direct Converters, A, 6/7, p. 91
CAD growth remains strong in a down year, N/T, 6/21, p. 36
Modeling DC Motors with SPICE, A, 7/12, p. 81
Gaining the Competitive Edge, CCP, 7/26, p. CC1
Successfully Applying CAD/CAM, CCP, 7/26, p. CC50
CAD key to survival of automotive aftermarket, N/T, 8/9, p. 10
A Better Way to Blend Design with Manufacturing, A, 8/9, p. 89
Software improves part fit on tunnel borer, N/T, 9/6, p. 43
Development Software Helps Get A Grip on Concepts, A, 9/6, p. 52
Formula I teams turn to CAD/CAM, N/T, 10/11, p. 12
Computers for CAD/CAM, CD, October, p. 6
Stress analysis optimizes truck structure, S, 1/25, p. 58
Filling Out the FEA Family, A, 2/22, p. 74
Friction Analysis of Lock-and-Hold Joints, A, 2/22, p. 99
New software builds better solid models, N/T, 3/8, p. 12
Using FEA for Industrial Equipment Design, A, 4/12, p. 77
PDA bolsters position as technical leader, N/T, 5/10, p. 39
Graphics computers push performance barriers, N/T, 5/10, p. 42
CAD interface is boon to auto suppliers, N/T, 5/10, p. 43
Fatigue analysis reduces prototyping, N/T, 5/24, p. 39
Reverse engineering is new twist on CAD, N/T, 6/21, p. 34
Evaluating Automated Meshing and Element Selection, A, 6/21, p. 48
Software compares pump performance, N/T, 7/12, p. 38
Valves and seals made to order in record time, N/T, 7/12, p. 38
Buying Smart Software, CCP, 7/26, p. CC24
Modeling Micromachined Sensors with Finite Elements, A, 7/26, p. 44
They can get it for you wholesale, N/T, 9/6, p. 44
FEA Yields Improved Forgings, A, 9/20, p. 83
Design, modeling, and analysis, CD, October, p. 23
Experts lament resistance to new computer tools, N/T, 10/25, p. 12
Pinpointing Stressed Out Designs: Interpreting FEA results, A, 12/6, p. 111
Linking Computers for Team Engineering, CCP, 7/26, p. CC38
Laser speeds videotape duplication, S, 8/9, p. 60
Looking Inside with Outside Help, A, 11/8, p. 75

### 85. Technical Information

Sorting Out European Standards, A, 1/25, p. 63
U.S. and Europe at odds over hydraulic ports, N/T, 3/8, p. 48
Guidelines for Specifying Stainless, A, 6/7, p. 50
The Problems with Geometric Dimensioning and Tolerancing, A, 8/23, p. 129
The Seven Deadly Sins of Dimensioning and Tolerancing, A, 11/8, p. 60
New Approach To Improving Product Quality, A, 11/8, p. 98
Metric summit stresses international standards, N/T, 12/5, p. 72

### 86. Legal & Environmental

The Perils of Patent Infringement, A, 4/12, p. 105
Don't Let Product Liability Knock You Out, A, 2/22, p. 91

### 87. Personal & Professional

National Design Engineering Show and Conference, A, 2/8, p. 44
Hardware, Software Services at NCGA '90, A, 3/8, p. 78
SAMPE To Showcase Advanced Materials and Processes, A, 3/22, p. 58
Quality Expo: QC Equipment, Systems, and Services, A, 4/12, p. 64
Show unravels mysteries of concurrent engineering, N/T, 8/9, p. 18
Do Unions Belong in Engineering? A, 6/7, p. 83
Boeing engineers walk picket line, N/T, 7/12, p. 12
FP industry facing innovation gap, N/T, 7/12, p. 36
Managing the New Workforce, A, 5/10, p. 109
Engineers Put NASA Back on Track, A, 9/6, p. 68
Engineering Shortage: Prophecy or Propaganda? A, 9/6, p. 111
Magic Engineering at Disney, A, 10/25, p. 26

### 88. Outside Services

Working with Industrial Designers, A, 8/9, p. 81

### 89. Engineering Test Equipment

Line conditioner fixes factory glitches, N/T, 3/8, p. 14
Interfacing Sensors to PCs, A, 3/22, p. 88
Small digital submeter is easier to read, S, 11/22, p. 60
Settling Down Machine Shakes, A, 1/11, p. 125
Lab fights hydraulic noise, N/T, 7/12, p. 40
Simulators leave the driving to software, N/T, 8/9, p. 16

## 9 MISCELLANEOUS

### 91. Complete Machines

Argon-ion laser speeds prototype modeling, S, 6/21, p. 60
3D prototypes shot from a nozzle, S, 6/21, p. 62
Space artillery slated for launching small payloads, N/T, 4/12, p. 16
Tunnel dirt conveyed by enclosed drive, S, 10/25, p. 54
Cones hold AGV in place, S, 11/8, p. 48
Reversing X-ray geometry produces clearer image, S, 2/22, p. 40
Portable phone uses pay phone lines, S, 7/26, p. 78
Petals play a big role on antenna signal reflector, N/T, 8/23, p. 16
Stolen cars phone home, S, 9/6, p. 78
Government Tangles Telephone Technology, A, 10/11, p. 76
Monitoring Wear with Gamma Rays, A, 10/25, p. 99
Low-cost solar dish shows high efficiency, N/T, 11/8, p. 16
3D sound points pilots toward the enemy, S, 11/22, p. 40
Detroit '90 — Motor-City Slowdown? A, 1/11, p. 72
Visitors to Mars by 2011? N/T, 1/25, p. 16
Future cars practically drive themselves, N/T, 2/8, p. 12
Air Force keeps aging aircraft flying longer, N/T, 2/8, p. 14
Electric vehicles boosted in California, N/T, 2/22, p. 16
Trouble in Aerospace Paradise, A, 3/8, p. 66
Space launch vehicle gets jump start, N/T, 3/22, p. 16
Kit Planes: High Tech in a Box, A, 3/22, p. 70
STOL fighter makes first thrust-reversing flight, N/T, 5/10, p. 12
Indy 500 - Engineering A Sleeker Car, A, 5/10, p. 74
Mid-mounted engine expands minivan interior, S, 5/10, p. 84
Helicopter mock-up to help with engineering, N/T, 5/24, p. 21
Automatic gearbox acts like manual on the road, S, 6/7, p. 66
Giving Cars A Mind of Their Own, A, 6/21, p. 56
Autos Spur the 90s, A, 8/23, p. 79
Backing Iraq into a corner, N/T, 9/20, p. 12
Patrol boat sails stormy seas, N/T, 9/20, p. 13
Flat-front bus provides clear picture, S, 9/20, p. 60
Electronics Keep Big Trucks Hauling, A, 10/25, p. 38
General Motors launches Saturn, N/T, 11/8, p. 12
Keeping Old Birds Airborne, A, 11/22, p. 28
Lightweight, Fights Great, A, 12/6, p. 22

# CLASSIFICATION SYSTEM

## 1 ELECTRICAL AND ELECTRONIC

10 General
11 Motors and electromechanical actuators
12 Motor controls and protectors
13 Switches and relays
14 Circuit components
15 Miscellaneous components
16 Interconnections
17 OEM control systems and computers
18 Power supplies, conditioners and controls
19 Sensors and actuators (transducers)

## 2 FLUID POWER

20 General
21 Fluids
22 Fluid conditioners
23 Fluid conductors
24 Linear devices
25 Rotary devices
26 Seals
27 Valves
28 Instruments and controls
29 Systems and assemblies

## 3 MECHANICAL

30 General
31 Power sources
32 Constant-speed drives and transmissions
33 Adjustable-speed drives and transmissions
34 Drive components
35 Rotational components
36 Mechanisms
37 Controls
38 Subsystems

## 4 ASSEMBLY COMPONENTS

40 General
41 Fasteners
42 Springs and isolation devices
43 Miscellaneous
44 Measurement equipment

## 5 MATERIALS

50 General
51 Ferrous metals
52 Nonferrous metals
53 Plastics
54 Rubber and elastomer
55 Joining materials
56 Other nonmetals
57 Finishes, coatings, and lubricants
58 Prefabricated forms
59 Electrical and electronic

## 6 MANUFACTURING PROCESSES

60 General
61 Metal casting
62 Metal shaping and forming
63 Manufacturing assembly services
64 Metal joining
65 Metal removal
66 Metal treating
67 Finishing
68 Plastics and rubber processes
69 Production machinery and plant equipment

## 7 DESIGN THEORY AND TECHNIQUES

70 General
71 Design analysis
72 Applied mathematics
73 Basic science
74 Human factors
75 Metrication

## 8 ENGINEERING MANAGEMENT AND OPERATION

80 General
81 Engineering department operations
82 Product planning and marketing
83 Drafting and reproduction
84 Engineering department equipment
85 Technical information
86 Legal and environmental
87 Personal and professional
88 Outside services
89 Engineering test equipment

## 9 MISCELLANEOUS

90 General
91 Complete machines
99 Unclassified

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